

REIFER, I.; WIEWIÓROWSKI, M.; NIZIOLEK, S.; STAWICKA, D.; BRATEK, (D.M.)

Biogenesis of alkaloids. II. Bul Ac Pol biol 10 no.5:161-166  
'62.

1. Institute of Biochemistry, and Biophysics, Polish Academy of Sciences, and Department of Biochemistry, Central College of Agriculture, Warsaw. Presented by J.Heller.

\*

POLAND

WIERWIGROSKI, M. and BRATEK, M. B., Institute of Biochemistry and Biophysics (Instytut Biochemii i Biofizyki) of PAN [Polska Akademia Nauk, Polish Academy of Sciences] and the Department of Organic Chemistry (Zaklad Chemii Organicznej) of the University (Uniwersytet) im. A. Mickiewicza in Poznan

"Studies on the Structure of a New Group of Lupin Alkaloids."

Warsaw, Bulletin de L'Academie Polonaise des Sciences, Serie des Sciences Biologiques, Vol 10, No 9, 62, pp 349-355.

Abstract: [English article] The predominant fraction of the "hydroxylupanine esters fraction" (HEF<sub>3</sub>) has been unequivocally identified as (+)-13-trans-cinnamyl-hydroxylupanine by IR-spectra and resynthesis, and studies are continued on the remaining two fractions. Of the four references, two are Polish and two are in the English language.

11/1

BRATEK-WIEWIROWSKA, M.D.; WIEWIROWSKI, M.; REIFER, I.

Lupin alkaloids. Structure of five new natural acyloxylupanines.  
Bul chim PAN 11 no.11:629-626 '63.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw. Presented by J. Suszko.

BRATEK-WIEWIROWSKA, Maria D.; WIEWIROWSKI, M.; REIFER, I.;  
GOLANKIEWICZ, K.; NOWACKI, E.; BOCZON, W.; DEZOR, Maria

Synthesis and degradation of alkaloids in lupin ontogenesis.  
Acta biochim. Pol. 12 no.4:395-412 '65.

1. Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warszawa; Department of Organic Chemistry, A. Mickiewicz University, Poznan; Institute of Plant Genetics, Polish Academy of Sciences, Poznan.

BERZAK, M.A.; BRATEL', I.N.; KAGANOVA, Ye.I.; PLOTITSINA, K.M.; SMIRNOVA, Z.M.

Experience in the detection of cardiovascular pathology in the compound examination of thoracic organs in rural population. Sov. med. 28 no.7:93-96 Jl '64. (MIRA 18:8)

1. Bol'shechernigovskaya sel'skaya bol'nitsa (glavnnyy vrach Z.M. Smirnova) Kuybyshevskoy oblasti. Nauchnyy rukovoditel' - prof. V.V.Zodiyev.

BRATEL', I.N., polkovnik meditsinskoy sluzhby

Medical service of railroad units prepares to be worthy of the  
meeting of the 22d Congress of the CPSU. Voen.-med.zhur. no.9;  
10-12 S '61. (MIRA 15:10)

(RAILROADS--EMPLOYEES--MEDICAL CARE)

PEGAN, Boris, dr.; BRATELJ, Zorislav

Foreign bodies in the lower segment of the respiratory tract  
in children. Med. glas. 17 no.8:315-317 Ag-S'63

1. Otoloski i Djecji odjel Opce bolnice u Osijeku.

S

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206730011-1

BRATENKO, V., inzh.

Green gold at your feet. Izobr. i rats. no. 7:12-13 J1 '61  
(MIRA 14:6)

(Lumbering)  
(Wood waste)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206730011-1"

34555

S/659/61/007/000/044/044  
D231/D303

8.11.1

AUTHORS: Prokoshkin, D.A., Bannykh, O.A., Bratenko, V.N., and Zudin, I.F.

TITLE: Investigating some heat-resistant chromium-manganese steels alloyed with nitrogen, molybdenum and boron

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Issledovaniya po zharoprochnym splavam, v. 7, 1961, 370 - 378

TEXT: The authors investigated heat-resistant Cr-Mn steels containing 17 % Cr, 13 % Mn and 0.2 % N. According to the equilibrium diagram for the Fe-Cr-Mn system an alloy containing 17 % Cr and 12% Mn at temperatures above 850 - 870° possesses an austenitic-ferrite structure and at very low temperatures the ferrite decomposes forming the  $\sigma$ -phase. Addition of 0.2 % N ensures the stable structure of the  $\gamma$ -solid solution near to the saturation limit. Mo increases the heat-resistance of steel by entering both into the  $\alpha$ -solid solution and into the  $\gamma$ -solid solution. Alloying the above steel with Mo enabled the dependence of the heat-resistant properties on the phase composition of the steel and the degree of saturation of  $\gamma$ . X

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Investigating some heat-resistant ...

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D231/D303

and  $\alpha$ -solid solution to be investigated. The investigation consisting of two parts was carried out with the following steels: 1) 0 % Mo; 2) 1 % Mo; 3) 3 % Mo; 4) 5 % Mo (part I); 5) 3 % Mo + 0.001 % B; 6) 3 % Mo + 0.004 % B; 7) 3 % Mo + 0.008 % B (part II). Part I: Tests carried out were: 1) Dependence of the hardness of various steels on the quenching temperature; 2) Microstructure after quenching from 1000°C; 3) Dependence of the ultimate strength and corresponding elongation on temperature in the range 600 - 900°C; 4) Measurement of creep resistance at 700°C and 750°C; 5) A steel quenched (from 1100°C) in water, then subjected to ageing (at 750°C) for 10 hours was investigated for strength and ductility when tested to fracture (20 - 900°C) also for temperature dependence of the impact strength, long-time thermal stability and long-time strength under a load. The results are fully discussed. Part II: According to S.M. Vinarov (Ref. 10: Trudy MAI, no. 123, Oborongiz, 1960) the ability of small amounts of B to increase the heat resistance of steels depends on the method of introducing B into the steel and the chemical composition of the latter. The steels chosen were those previously investigated in part I which showed small creep resistance. All the investigated steels after quenching (from 1150°C) X

Card 2/3

Investigating some heat-resistant ...

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D231/D303

in easier then subjected to ageing at 700°C (for 10 hrs) had  $\gamma + \sigma$  structure. In order to obtain maximum information on the effect of B at higher temperatures, the mechanical properties were investigated in the temperature range 20 - 700°C. Studied were: 1) Dependence of strength and ductility of steel with various additions of B on the temperature; 2) Impact strength (resilience); 3) Creep resistance; 4) Heat resistance at 700°C. The authors concluded that steels 1 and 2 of the austenite structure possess a much higher heat resistance than other steels (3, 4, 5, 6, 7) having two-phase ( $\gamma + \sigma$ ) structure. Molybdenum increases the heat resistance of steels of both austenitic and two-phase structure. Alloying with Mo in amounts which do not cause formation of the second phase is useful. The optimum amount of Mo is that near to the saturation limit for a given concentration of N in the steel. Additions of B improve the heat resistance of steel. Of the alloys investigated those containing 0.001 % B showed the best effect. There are 3 figures and 10 references: 9 Soviet-bloc and 1 non-Soviet-bloc. The reference to the English-language publication reads as follows: J.T. Brown, Metal progr., 74, 2, 1958.

Card 3/3

X

PROKOSHKIN, D.A.; BANNYKH, O.A.; BRATENKO, V.N.; ZUDIN, I.F.

Investigating certain heat-resistant chromium-manganese steels  
alloyed with nitrogen, molybdenum and boron. Issl. po zharopr.  
splav. 7:370-378 '61. (MIRA 14:11)

(Chromium-manganese steel--Testing)  
(Heat-resistant alloys--Metallurgy)

ACCESSION NR: AR4041546

S/0137/64/000/004/I055/I055

SOURCE: Ref. zh. Metallurgiya, Abs. 41337

AUTHOR: Bratenko, V. N.; Zudin, N. F.; Prokoshkin, D. A.

TITLE: Influence of alloying on hardening of chromium-manganese austenitic steels

CITED SOURCE: Sb. Issled. po vy\*okoprochn. splavam nitevidn. kristallam. M., AN SSSR, 1963, 178-183

TOPIC TAGS: alloying, hardening, chromium steel, manganese steel, austenitic steel

TRANSLATION: Investigates influence of alloying of Ti, V, Mo, and W on strength and plasticity of Fe-Cr-Mn steel (19% Mn, 12% Cr and 0.2% N) in interval 20-700°. With increase of content of V, σ increases at room temperature and plasticity worsens. Introduction of W and Mo little affects indication of the characteristic.

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ACCESSION NR: AR4041546

At increased temperatures difference in action of alloy elements becomes more noticeable. In alloys with T, V, and Mo there is clearly observed a slowing of the drop in strength with increase of temperature, for V and Mo this occurs at 600°, in an alloy with Ti, in the interval 500-520°. For steel with W this effect is less significant. Mo and W with increase of temperature decrease the ratio  $\sigma_u/\sigma_0$ , which increases somewhat at 600° and above and lies within 0.30-0.4. For steel with Ti this magnitude is somewhat higher; with increase of temperature it also at first decreases, and then increases (at 600-700°). Additions of V still more increase  $\sigma_u/\sigma_0$ ; drop of  $\sigma_u/\sigma_0$  is observed only in the interval 600-650°, and at 700° this magnitude attains 0.9. True ultimate strength  $\sigma_u$  in all cases exceeds  $\sigma_0$ . This is most clearly expressed for alloys, containing Mo and W, for which ratio  $\sigma_u/\sigma_0$  at 20-600° did not exceed 0.4-0.5, but at 700° attained 0.7. For an alloy with 0.6% V with increase of temperature  $\sigma_u/\sigma_0$  increases temperature gradually from 0.6 to 0.9. There is stated the assumption that this phenomenon is connected with action of the mechanism of carbide-formation, occurring directly under the influence of load. Bibliography: 8 references.

SUB CODE: MM

ENCL: 00

Card 2/2

L 15198-65 EWT(m)/EWP(w)/EWA(d)/EWP(t)/EWP(b)  
ACCESSION NR: AT4046851

ASD(m)-3 JD/MLK  
S/0000/64/000/000/0253/0257

AUTHOR: Bratenko, V. N., Fedotov, S. G.

TITLE: A study of the elastic characteristics of chromium-manganese steels *B*

SOURCE: AN SSSR. Nauchnyy sovet po probleme zharoprovchnykh splavov. Issledovaniya staley i splavov (Studies on steels and alloys). Moscow, Izd-vo Nauka, 1964, 253-257

TOPIC TAGS: alloy steel, austenitic steel, chromium manganese steel, steel elasticity, steel plastic deformation

ABSTRACT: Iron with 11.1-11.9 wt. % Cr, 18-20.1 wt. % Mn, 0.06-0.08 wt. % C, and 0.017-0.22 wt. % N was the base of alloys with 0.07-0.57 and 2.03% Ti, 0.30-1.05% V, 0.49-1.89, 2.51 and 2.98 Mo, and 1.05-3.71% W used in a study of the effects of these alloying elements on the elastic modulus (E), shear modulus (g), Poisson coefficient and logarithmic damping coefficient of austenitic chromium-manganese steels. Samples were tested after quenching from 1150C in water, stabilizing tempering at 750C for 10 hrs, and prolonged subjection to tensile stresses of 20 kg/mm<sup>2</sup> at 650C. The dynamic method was used to determine the elastic constants in samples 120 mm long and 8 mm in diameter in

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ACCESSION NR: AT4046851

which transverse, longitudinal and torsional stresses were generated and the natural frequencies of vibrations were determined by a resonance method with an Elastomat device having an accuracy to 1 cps. From a rather complex and nonuniform pattern of results obtained, the conclusions are drawn that: a) in general, alloying leads to a slight increase in the elastic characteristics in the steels investigated; b) the increase in plastic deformation resistance may be attributed essentially to carbide and other aggregations rather than to the strengthening of the lattice of the gamma-solid solution; and c) deformation is a factor distinctly accelerating austenite decomposition, thus changing the elastic properties. Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: none

SUBMITTED: 16Jun64

ENCL: 00

SUB CODE: MM

NO REF SOV: 004

OTHER: 002

Card 2/2

S/123/62/000/006/015/018  
A004/A101

AUTHORS: Gulyayev, G. I., Sitkovskiy, I. S., Khabarov, N. D., Baykova, T. P.,  
Bratenkova, Ye. V.

TITLE: The practice of pressing converted tubes from the steel grades  
EI 846 (EI846), EI 847 (EI847), EI 702 (EI702), X 1221 (Kh12F1),  
CH 2 (SN2) and OX 18N9T (OKh18N9T)

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 6, 1962, 25-26,  
abstract 6V119 (v sb. "Proiz-vo trub". no. 4, Khar'kov, Metallurg-  
izdat, 1961, 5-8)

TEXT: Tests were carried out to press converted tubes from the difficult  
to pierce steel grades EI847 and Kh12F1 and EI846, EI702 and SN2 which cannot be  
pierced on machines with oblique-positioned rolls. For a comparison, the OKh18N  
grade steel was used which is well-introduced in tube production. Pressing  
was carried out on a 600-ton vertical hydraulic press. The blanks in the form  
of turned and drilled sleeves of 83 mm outer diameter and 24 mm wall thickness  
were heated in a horizontal induction furnace with electromechanical pusher up  
to the following temperatures: EI846 - 1,200°C, EI847 - 1,220 - 1,230°C, EI702 - ✓  
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S/123/62/000/006/015/018

A004/A101

The practice of pressing converted tubes ...

1,150°C. Kh12F1 - 1,160 - 1,170°C. SN 2 - 1,220 - 1,250°C, OKh18N9T - 1,170 - 1,190°C. The heated blanks were wrapped in a 0.27 mm thick glass fabric while the inner surface of the blanks was sprayed with glass powder. The dies, spikes and container bushes were lubricated with a graphite-mineral oil mixture. The pressed tubes of 39.0 - 41.5 x 3.75 - 40 x 1,000 - 1,700 mm size showed a satisfactory quality: The transverse nonuniformity in wall thickness amounted to 0.19 - 0.56 mm, which does not exceed 6.0 - 7.5% of the wall thickness. The pressure gauge readings were recorded, characterizing the pressing stresses which for the different steel grades amounted to 180 - 450 tons. The die service life made of 3X2F8 (3Kh2V8) grade steel was not satisfactory in pressing tubes of the steel grades EI846, EI847, Kh12F1 and EI702. Already after the first pressing, scratches and adhering metal particles showed on the die working surface, while after two subsequent pressings the die had to be cleaned, since considerable lines and scratches would have appeared on the tubes if they had been used furthermore. The life of the spikes from 3Kh2V8 steel was satisfactory. 14 tubes were pressed with one spike. There are 3 figures.

V. Pavlyuchenko

[Abstracter's note: Complete translation]

Card 2/2

BRATERSKAYA, G.N.; NEPRYAKHIN, V.A.

Condenser discharge welding of silver-nickel and silver con'actors.  
Avtom. svar. 18 no.5:53-54 My '65. (MIRA 10.6,

1. Institut problem materialovedeniya (for Braterskaya).
2. Institut elektrosvarki im. Ye.O. Patona AN UkrSSR. (for Nepryakhin).

BRATERSKIY, F.; MEL'NICHUK, M.

Determining mineral impurities in flour. Khleb. i kond. prom.  
1 no.4:41 Ap '57. (MLRA 10:5)

1. Khlebbkombinat (Priluki).  
(Flour)

TYUNYAYEV, M.; IVCHENKO, N.; VASIL'YEV, Ya.; RYABOKUCHMA, S.; BRATERSKIY, F.,  
aspirant

Use of jet engines and ventilating systems for drying corn. Muk.-  
elev.prom. 28 no.3:18-24 Mr '62. (MIRA 15:4)

1. Nachal'nik upravleniya khlebopriyemnykh predpriyatiy Ministerstva zagotovok Moldavskoy SSR (for Tyunyayev).
  2. Zamestitel' nachal'nika Chernovitskogo upravleniya zagotovok (for Ivchenko).
  3. Glavnyy inzhener Kuybyshevskogo upravleniya zagotovok (for Vasil'yev).
  4. Zamestitel' direktora po kachestvu Khashchevatskogo khlebopriyemnogo predpriyatiya (for Ryabokuchma).
  5. Severo-Osetinskiy sel'skokhozyaystvennyy institut (for Braterskiy).
- (Corn (Maize)—Drying)

BRATERSKIY, F., aspirant

Effect of the time of storage and temperature on the after-ripening, sprouting, and germinating power of seed corn of various ripeness. Muk.-elev. prom. 29 no.4:10-11 Ap '63.  
(MIRA 16:7)

1. Severo-Osetinskiy sel'skokhozyaystvennyy institut.  
(Corn(Maize)) (Germination)

BRATERSKIY, F., aspirant

Heat denaturation of corn proteins during drying. Muk.-elev. prom.  
29 no. 6:10-12 Je '63. (MIRA 16:7)

1. Severo-Osetinskiy sel'skokhozyaystvennyy institut.  
(Corn (Maize) Drying) (Proteins)

BRATERSKIY, F.D.

Limit temperatures of corn kernel heating in drying. Izv.vys.ucheb.  
zav.; pishch.tekh. no.1:71-78 '64. (MIRA 17:4)

1. Severo-Osetinskiy sel'skohozyaystvennyy institut, kafedra  
organicheskoy i biologicheskoy khimii.

*BRATERSKIY I.*

**BRATERSKIY, I.**

~~One should save time on each operation. Mast.ugl.4 no.8:16 Ag'55.  
(MIRA 8:10)~~

1. Navalootboyshchik shakhty no.9 tresta Uzbekugol' kombinata  
Sredazugol'  
(Uzbekistan--Coal mining machinery)

BRATESCU, C.

Determination of the carbon equivalent in pig iron by means  
of cooling curves. Matalurgia constr mas 15 no.7:470-473 Jl '63.

L 2040-66 EWA(d)/EWP(t)/EWP(z)/EWP(b) JD  
ACCESSION NR: AP5027062

RU/0017/65/000/004/0188/0196

AUTHOR: Bratescu, C.

TITLE: Determining the equivalent carbon and the cast iron fluidity by means of the blanching and fluidity test

SOURCE: Metalurgia, no. 4, 1965, 188-196

TOPIC TAGS: cast iron, metal melting, metal test, physical metallurgy

Abstract [Author's English summary modified]: The authors experimented with a new hardening test suggested by an international commission, and a fluidity curve, for the rapid determination of cast iron characteristics. They found that if the working conditions are carefully controlled the test is accurate enough to allow a good estimate of equivalent carbon, temperature and resistance of cast irons, thus providing good conditions for a rational control of the melting process. Orig. art. has 6 figures, 5 graphs, and 3 tables.

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L 2040-66

ACCESSION NR: AP5027062

ASSOCIATION: Uzinele "Semanatoarea", Bucarest ("Semanatoarea" Works)

SUBMITTED: 00

NO REF Sov: 000

ENCL: 00

OTHER: 013

SUB CODE: MM

JPRS

Card 2/2

MARINCESCU, Mircea, ing.; BRATESCU, Craciun; STEFANESCU, Gheorghe, ing.

Chupola furnace with redistributed air. Metalurgia constr mas 15  
no.2:102-108 F '63.

1. Uzina "Semanatoarea", Bucuresti.

BRATESCU, D.

The profitability of damming up agricultural lands.

P 27, (Revista Transporturilor. Vol. 3, no. 1, Jan. 1956, Bucuresti, Rumania)

Monthly Index of East European Accessions (EEAT) LC. Vol. 7, no. 2,  
February 1958

BRATESCU, D.

BRATESCU, D. Abacus for the determination of the super-elevation of the water level  
in embanked sectors. p. 196.

Vol. 3, no. 5, May 1956  
REVISTA TRANSPORTURILOR  
TECHNOLOGY  
Bucuresti, Romania

So: East European Accession, Vol. 7, no. 3, March 1957

BRATESCU, D., ing.

Development of small water courses in plain regions illustrated  
by the Ialomita Sarata River. Meteorologia hidrol gosp 7 no.1:64-  
69 '62.

BRATESCU, D., ing.; BRATESCU, I., ing.

Graphs for determining the critical depths in trapezoidal canals.  
Meteorologia hidrol gosp 7 no.3:208-216 '62.

BRATESCU, D., ing.

Local river regularization works and the dynamics of  
river beds. Meteorologia hidrol gosp 5 no.4:278-281  
'60.

BRATESCU, D., ing.

Principles for execution of the regularization work of the  
watercourse beds. Meteorologia hidrol gosp 6 no.2:162-165  
'61.

Bratescu, Gh.  
ROMANIA General Division. History. Classics. Personnel.  
Abs Jour: Ref. Zhur. Biologia, No 4, 1958, 14125

Author : Bratescu, Gh.  
Inst Title : From the History of the Struggle for Materialism in Romanian  
Biology and Medicine.

Orig Pub: Ocrotirea, sanat., R.P.R., 1955, 5, No 1, 75-88

Abstract: In the history of the struggle for materialism in Rumanian science, an important role was played by the 6-year discussion (1903-1909) of the materialist-scientists, N. Leon (1862-1931) and particularly D. Voinov (1867-1951) against the obscurantism of professor N. Paulescu (1869-1931). In 1899 evolutionary teachings received official recognition in Rumania, and were introduced into the school programs. In 1902 Paulescu came out against the evolutionary teachings in his work, "Spontaneous Origin and Darwinism in the Face of Experimental Methods." Sociology, ac-

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Voinov

BRATESCU, G.

Some practical uses of interferometry. p. 125.  
ZAVENTA MATEMATICA SI FIZICA. SERIA A, Bucuresti, Vol. 7, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

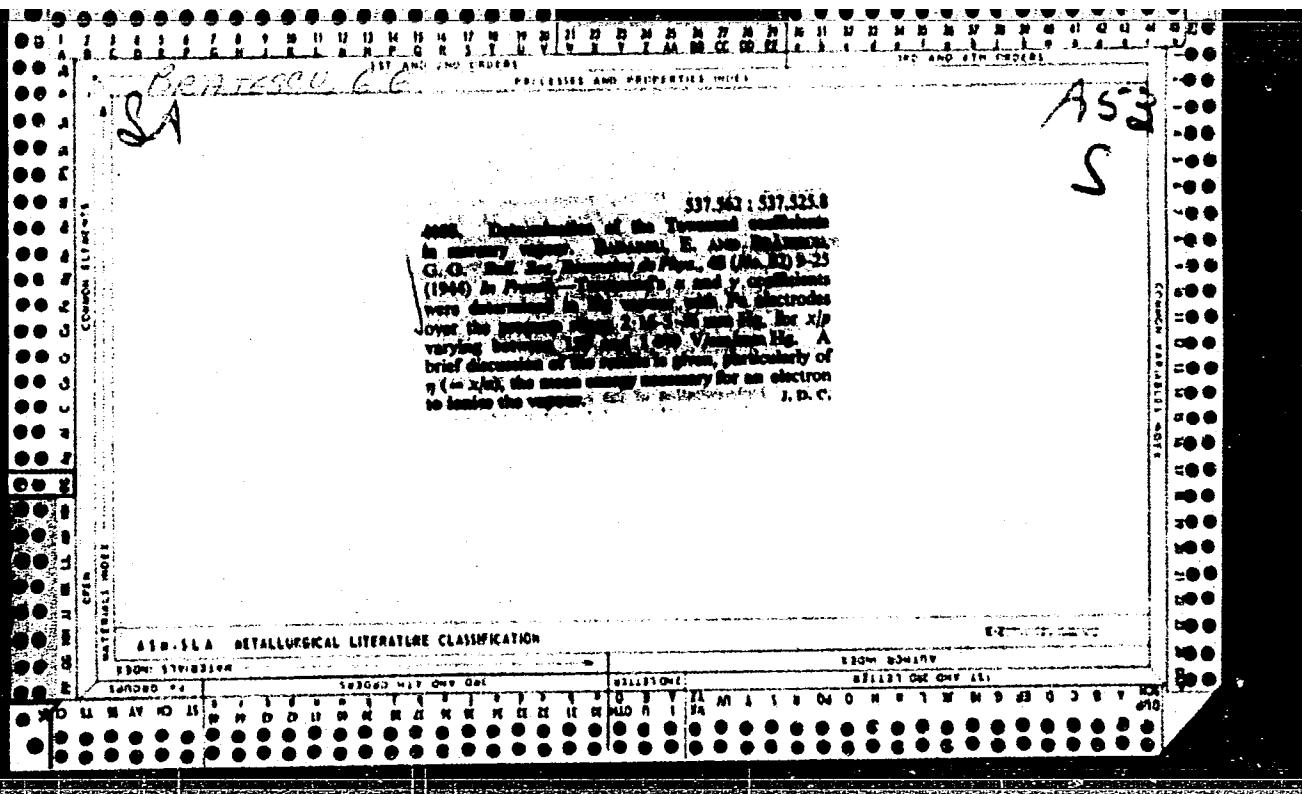
BRATFSCU, G.

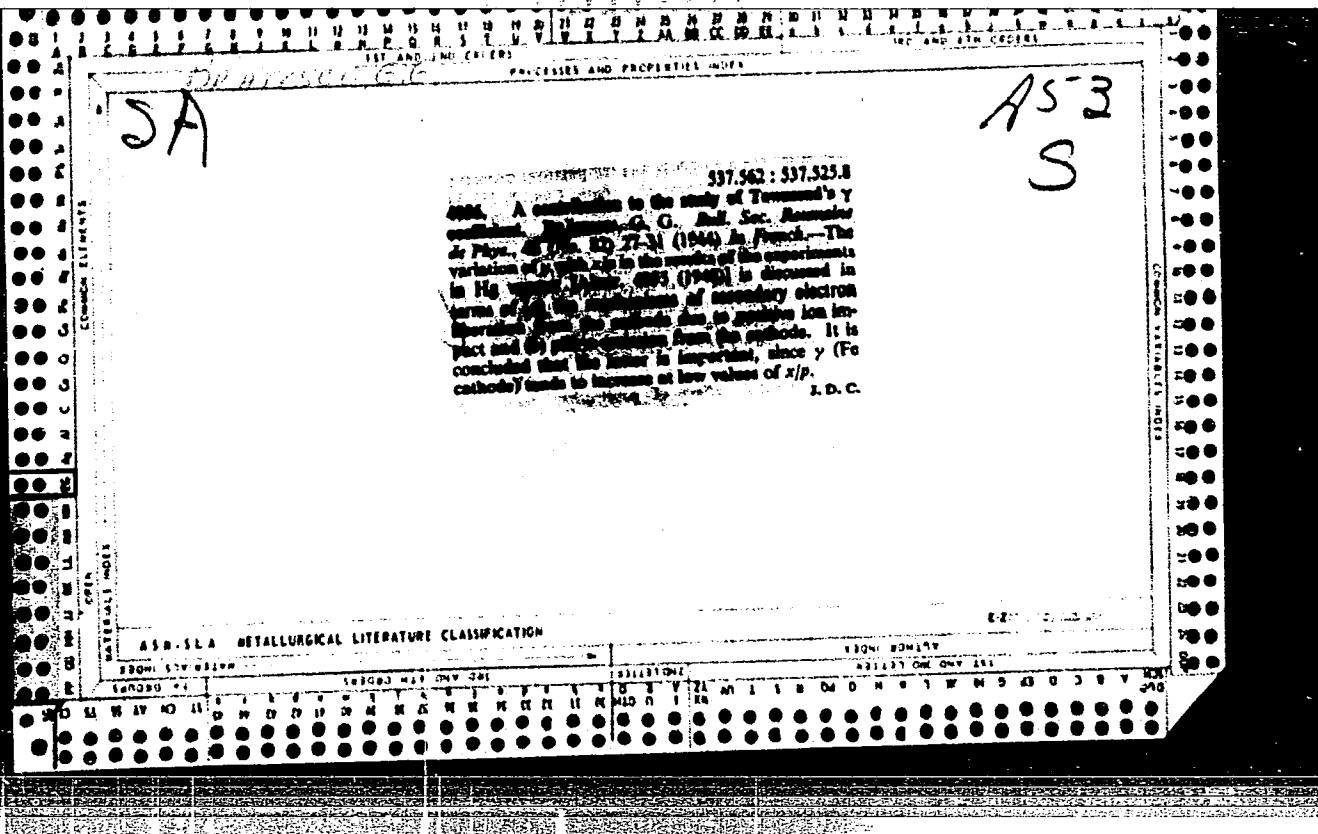
Quick methods used in the research of aberrations of optical systems.  
p. 309

GAZETA MATEMATICA SI FIZICA. SERIA A. (Societatea de Stiinte  
Matematice si Fizice din Romania)  
Vol. 8, no. 6, June 1956

Bucuresti, Rumania

SOURCE: East European List (EEAL) Library of  
Congress, Vol. 6, No. 1, January 1957





RUMANIA/Optics - Optical Technology

K-4

Abs Jour : Ref Zhur - Fizika, No 5, 1959, No 11594

Author : Bratescu G.

Inst :

Title : Physical Principles of Tolerances Used in Optics

Orig Pub : Gaz. Mat. si fiz., 1953, al0, No 6, 339-343

Abstract : The tolerances which must be employed when utilizing certain optical phenomena are considered, such as reflection, refraction, and interference, starting with the Rayleigh principle.

Card : 1/1

69

BRATESCU, G.

Disruptive potential and cathode structure in potassium vapors. p. 33

REVUE DE PHYSIQUE (Academia Republicii Populare Romine) Bucuresti *RUMANIA*  
Vol. 4, no. 1, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 9, no. 2, 19<sup>59</sup>

UCL.

S/194/62/000/001/046/066  
D201/D305

AUTHOR:  
TITLE:

Bratescu, G. G.  
The growth of a glow discharge in the vapors of alkali metals

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 1, 1962, 64, abstract 1Zh448 (An. Univ. 'C. I. Parhon', Ser. stiint. natur., 1960, 9, no. 25, 229-241)

TEXT: A description of glowing regions is given which may be observed in glow discharge tubes filled with alkali metal vapors at slightly smaller and slightly larger than the firing potentials. The measurements were carried out at different values of the  $(p_0)$  product. Ni, Al and liquid K cathode tubes were investigated. For  $(p_0) \approx (p_d)_{\min}$  or slightly greater, when the charge glows in the inter-electrode space, some glowing regions may be observed. First region of the red light appears which corresponds to a po-

RUMANIA

BARBU, G., Dr and BRATESCU, G., Dr [affiliation not given]

"Contribution of Russian Physicians to the Control of the  
1828-1829 Plague Epidemic in the Rumanian Principalities."

Bucharest, Microbiologia, Parazitologia, Epidemiologia,  
Vol 8, No 1, Jan-Feb 1963, pp 81-86.

Abstract: An article reviewing the 1828-1829 plague  
outbreak and the efforts of Rumanian and Russian physi-  
cians to combat it.

11/1

BRATESCU, V.; VITAN, P.

Study of the magnetic properties of some iron oxides. Studii cerc fiz 17 no.1a3-7 - 65.

I. Research Institute for Transport and Telecommunications.  
Submitted February 3, 1964.

BARBU, G.; BRATESCU, G. (Bukharest)

Russian physicians in the control of a plague epidemic in the Rumanian  
principalities in 1828-1829. Sov.zdrav. 20 no.4: 58-62 '61.  
(MIRA 14:5)

1. Iz otdela istorii meditsiny Bukharestsksogo instituta gigiyeny  
i zdravookhraneniya.  
(RUMANIA--PLAQUE)

COUNTRY : ROMANIA  
CATEGORY : Farm Animals.  
SUBCAT: Two Swine.  
ABS. JOUR. : RZhBiol., No. 3, 1959, No. 12077  
AUTHOR : Stel, V.; Lunca, N.; Bratescu, I.; Bica, M.;  
TITLE : The Termination of Sexual Ardor in Pigs with  
the Aid of Diacetate Hexestrol.  
ORIG. PUB. : Probl. zootehn. si veterin., 1958, no 1, 18-51  
ABSTRACT : In order to terminate sexual ardor in fattening pigs, three series of experiments were performed in which the effect of the drug "einterolin" in the form of subcutaneous injections was tested. The hormone was given once in a dose of 30-40 mg regardless of the sexual cycle's phase. After 24-48 hours signs of a sharply pronounced sexual ardor were found in all pigs which disappeared 2-3 days later for a lengthy period of time (3-4 months).

CARD: 1/2 \*Slavescu, E.; Popovici, P.

83

COLLATERAL : RUSSIAN  
CATEGORY : :

ABS. JOUR. : RZhBiol., No. 1959, No.:

AUTHOR :  
Last, :  
Title, : :

ORIG. PUB. :

ABSTRACT : The average live weight and the average daily weight gain were lower in experimental pigs than in castrated pigs. The bacon yield amounted to 91.27 percent in castrated, to 88.37 percent in experimental, and to 88.23 percent in control pigs; the ratio of meat to fat amounted correspondingly to: 1.59 : 1; 1.79: 1; 1.75 : 1. -- V. V. Folvitsova

Card: 2/2

BRATESCU, D., ing.; BRATESCU, I., ing.

Graphs for determining the critical depths in trapezoidal canals.  
Meteorologia hidrol gosp 7 no.3:208-216 '62.

BRATESCU, S.

"The character of economic laws in socialism." p. 13. "Stalingrad, the heroic city, has risen from the ashes." p. 16. (STIINTA SI CULTURA, No. 2, Feb. 1953. Bucaresti.)

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress  
August, 1953, Unclassified.

BRATESCU, V.; MARINCI, I.

Role of the molding mixtures in the improvement of the quality of cast pieces. p.204.

REVISTA CAILOR FERATE. (Calle Ferate Romine)  
Bucuresti, Rumania  
Vol. 7, no. 4, Apr. 1959.

Monthly list of Eastern European Accession Index (EEAI) LC vol. 8, No. 11  
November 1959  
Uncl.

HUNDUC, Miriam I.; BRATTAND, Alice S.

~~Biogenesis~~ as a form of amitotic cell division. Cas.lek.cesk 100  
no.34:1078-1080 25 Ag '61.

1. Laborator histologie lekarskeho ustavu, Jassy.

(CELL DIVISION)

Stapled card  
being rerun.

*Bratescu, Gh.*

RUMANIA/General Division. History. Classics. Personnel.

A-2

Abs Jour: Ref. Zhur. Biologija, No 4, 1958, 14125

Author : Bratescu, Gh.

Inst :

Title : From the History of the Struggle for Materialism in Rumanian  
Biology and Medicine.

Orig Pub: Ocrotirea, sanat., R.P.R., 1955, 5, No 1, 75-88

**Abstract:** In the history of the struggle for materialism in Rumanian science, an important role was played by the 6-year discussion (1903-1909) of the materialist-scientists, N. Leon (1862-1931) and particularly D. Voinov (1867-1951) against the obscurantism of professor N. Paulescu (1869-1931). In 1899 evolutionary teachings received official recognition in Rumania, and were introduced into the school programs. In 1902 Paulescu came out against the evolutionary teachings in his work, "Spontaneous Origin and Darwinism in the Face of Experimental Methods." Sociology, ac-

Card : 1/2

-5-

RUMANIA/General Division. History. Classics. Personnel.

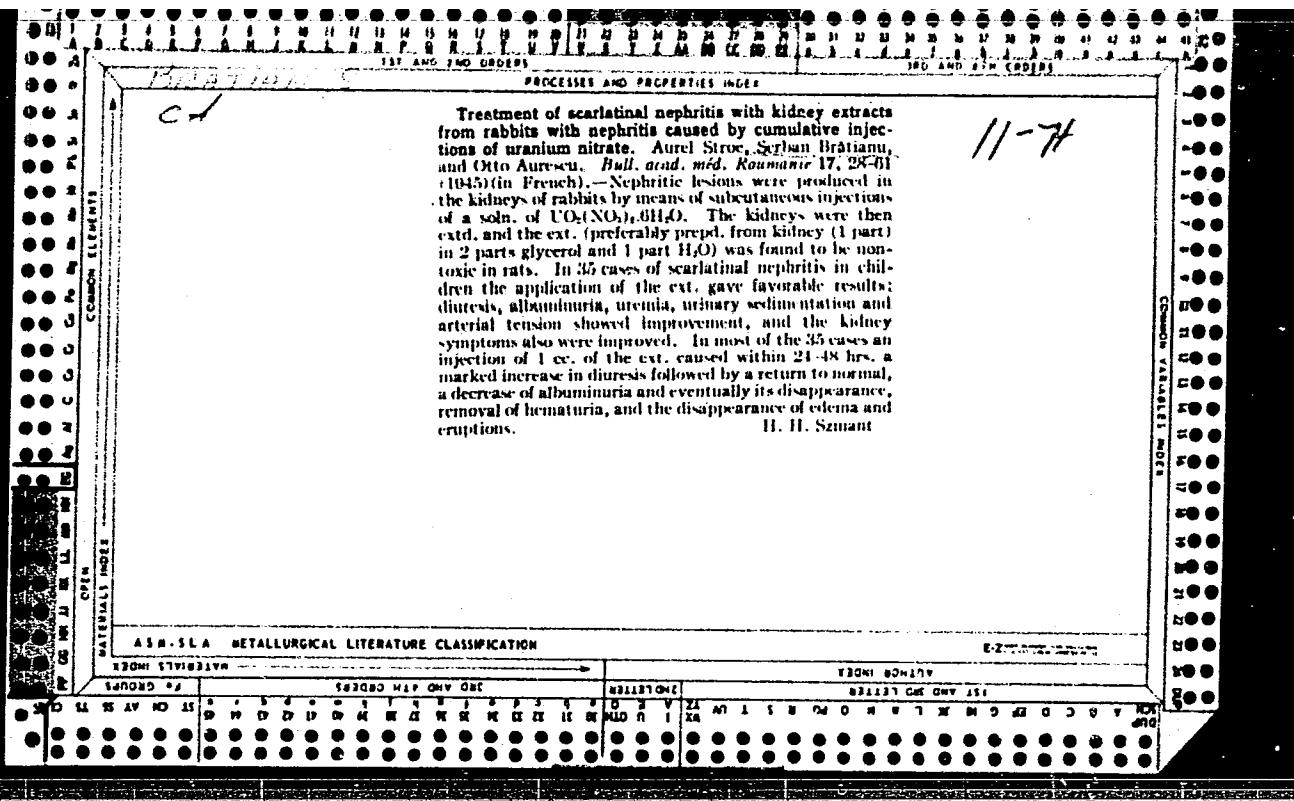
A-2

Abs Jour: Ref. Zhur. Biologija, No 4, 1958, 14125

cording to Paulescu, is the highest branch of biology. Man was as though he had inherently an "instinct of property", and an "instinct of domination and subjection", and definite localization in the cortex of the brain was ascribed to these "instincts." N. Leon, a follower of the materialistic teachings of "Gekkel", did much for the unmasking of Paulescu's mysticism, and aided in the propagation of the work of I.I. Mechnikov, who, with the aid of serological data, had proved the community of man and the higher mammals. However, Leon could not overcome the historical limitation of "Gekkel" teachings and some of the mistaken statements of C. Darwin. More radical was the consistent materialist Voinov, who was later chosen to be an Academician of the Rumanian Academy of Sciences. He tirelessly exposed Paulescu and showed that the views of the latter had nothing in common with scientific progress, and that they had been borrowed from the Bible and the works of the medieval theologian, Thomas Aquinas.

Card : 2/2

-6-



RUMANIA/Farm Animals. Sheep and Goats.

Abs Jour: Ref Zhur-Biol., No 17, 1958, 78763.

Q

Author : Jitariu, P.; Dimitrov, H.; Bratianu, S;  
Zamfirescu, N.; Jitariu, M.; Boileanu, I.;  
Agrigorone, St.; Baicu, V.; Mardare, Al.;  
Popescu, Ch.

Inst : Romanian Academy.

Title : Results of Stimulation of Metabolism in Grey Sheep.

Orig Pub: Comun. Acad. RPR, 1957, 7, No 2, 233-242.

Abstract: For purposes of stimulating metabolism, corn  
and oats, iodized to Zamfirescu method, were  
introduced into the ration of 11 pregnant grey  
sheep, (7.27 g of iodine daily). This caused  
an increase of the intensity of metabolism, an

Card : 1/2

HURMUZACHE, F.; BRATIANU, S.; BURDEA, M.; BETIANU, A.; TUDORANU, A.; DOBRESCU, C.

Musculo-cutaneous biopsy in diagnosis of latent forms of infantile rheumatism. Probl. reumat., Bucur. no.5:83-84 1958.

1. Clinica de pediatrie si Laboratorul de anatomic patologica Iasi.  
(RHEUMATIC HEART DISEASE, diagnosis  
musculo-cutaneous biopsy of musculo-tendinous region of  
knee, in child.)  
(MUSCLES, pathology  
biopsy of musculo-tendinous region of knee in rheum. dis. in  
child.)

BRATIANU, S.; GAVRILITA, Lorica; ONOFREI, T.; DOBRESCU, Gioconda

Action of colchicine on peritoneal mesothelium of white rats.  
Stud cercet med intern 4 no.3: 393-396 '63.  
(PERITONEUM) (EPITHELIUM) (CELL DIVISION) (COLCHICINE)

MIKES, A.; PAVLIC, M.; BRATIC, V.

The results of the hormonal treatment of blood diseases.  
Srpski arh. celok. lek. 83 no.9:947-953 Sept 55.

1. I Interna klinika Medicinskog fakulteta u Sarajevu.  
Upravnik: Bogdan, Zimonjic.

(ACTH, ther. use,  
blood dis (Ser))  
(CORTISONE, ther. use,  
blood dis. (Ser))  
(BLOOD, dis.  
ther., ACTH & Cortisone (Ser))

BRATIC-MIKES, VERA d-r.

PAVLOVIC, Ivan, d-r.; BRATIC-MIKES, Vera, d-r.

Leptospirosis in Bosanska Krajina. Med. arh., Sarajevo 11 no.3:  
17-23 May-June '57.

1. Interno odjeljenje Opste bolnice u Banjaluci. Sef odjeljenja:  
d-r Andrija Mikes.  
(LEPTOSPIROSIS, epidemol.  
in Yugosl. (Ser))

BRATILA, Ioana, ing.

Structure and physicomechanical properties of the sycamore maple.  
Ind. lemnului 15 no.6/7:238-241 Je-Jl '64.

HORTOLOMEI, N.; GHITESCU, I.; STEFANESCU, Tr.; BRATILOVEANU, C.

Autogenous venous graft in an aneurysm of the right popliteal artery.  
Rumanian M. Rev. 3 no.1:43-45 Jan-Mar 59.

(ARTERIES, POPPLITEAL, aneurysm  
surg., venous autograft, case report)  
(VEINS, transpl.

autograft in aneurysm of popliteal artery, case report)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206730011-1

BRATIN, V.S., inzhener.

Transverse method of excavating with a bulldozer. Sbor.mat.o nov.  
tekhn stroi. 15 no.10:5-6 '53. (MLRA 6:12)  
(Earthwork)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206730011-1"

BRATIN, V.S., inzhener.

Building high fills for lumber railroads by means of bulldozers. Nekh.stroi.  
10 no.8:25-27 Ag '53. (MLRA 6:8)  
(Railroads--Earthwork)

BRATIN, V.S., inshener.

Crosswise filling in of embankments with a bulldozer for the  
roadbed of logging railroads. Mekh. stroi. 11 no.1:14-16 Ja '54.  
(MIRA 6:12)  
(Railroads--Earthwork)

BRATIN, Vsevolod Sergeyevich; BUVERT, V.V., redaktor; YKPISHUKINA, A.V.,  
redaktor; KOLESNIKOVA, A.P., tekhnicheskiy redaktor.

[Construction of logging railroads] Stroitel'stvo lesovednykh  
zheleznykh dorog. Moskva, Goslesbunizdat, 1955. 222 p. (Biblioteka  
lesozagotovitelia, no.22) (MLRA 8;11)  
(Railroads--Construction)

BRATIN, Vsevolod Sergeyevich, inzh.; TORGONSKIY, Mikhail Nikolayevich,  
dotsent, kand.tekhn.nauk; PICULEVSKIY, S.V., retsenzent;  
D'YAKOVA, Ye.I., retsenzent; ZEVEST, M.B., red.; GORYUNOVA,  
L.K., red.izd-va; KUZNETHSOVA, A.I., tekhn.red.

[Construction of logging roads and artificial structures]  
Stroitel'stvo lesovoznykh dorog i iskusstvennykh storuzhenii.  
Moskva, Goslesbumizdat, 1960. 330 p.

(Forest roads)

(MIRA 14:4)

BRATIN, Yu.V., inzh.

Innovators in the Welding and Installation Trust. Stroi.truboprov.  
7 no.2:29-30 F '62. (MIRA 15:3)  
(Inventions)

BRATIN, Yu.V.

Suggestions of efficiency promoters in a welding and assembling  
trust. Stroi. truboprov. № no.5:27-28 Ny '64. (MRA 17:9)

"APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206730011-1

SOSONKO, A.M.; BRATIN, Yu.V.

Apparatus for feeding magnetizing devices. Stroi. truboprov. 10 no.9;  
27-28 S '65.  
(MIRA 18:9)

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206730011-1"

BRATINOV, P., insh.

High-power for low voltages. Mashinostroenie 13 no.1829-33  
Ja'64.

1. NIPKIEP.

SHIMKO, I.G.; BRATISHCHENKO, G.M.

Ways to reduce the losses of viscose and filter materials. Khim. volok.  
no.1:21-22 '62.  
(MIRA 18:4)

LIPKOVICH, S. M., kand.tekhn.nauk; BRATISHKO, A.S., gornyy inzh.

Field size in strip mining with horizontal crosscuts and block development. Ugol' Ukr. Vol.3 no.5:12-15 My '59.

(Strip mining)

(MIRA 12:9)

NAYDISH, A.M., kand.tekhn.nauk; BRATISHKO, A.S., gornyy inzh.

Determining the annual coal output of the surveyed sections in the southwest areas of the Donets Basin. Ugol' Ukr. 5 no.7:3-6 Jl '61.  
(MIRA 15:1)

1. Donetskiy politekhnicheskiy institut.

(Donets Basin--Mine valuation)

LIPKOVICH, S.M.; ZBORSHCHIK, M.P.; BRATISHKO, A.S.

Determining the expediency of the wide work drifting system in  
mining flat seams. Ugol' Ukr. 6 no.9:37-38 S '62.

1. Donetskiy politekhnicheskiy institut. (MIRA 15:9)  
(Donets Basin—Coal mines and mining)

NAYDYSH, A.M., prof.; BRATISHKO, A.S., inzh.; ZEMLYANSKIY, L.V., inzh.;  
LEBEDEV, N.N., inzh.; CHUYKOV, G.L., inzh.

Determining the optimum load on a panel for mines with a  
high methane liberation. Izv. vys.uchev.zav.:gor.zhur. 7  
no. 4:26-32 '64.  
(MIRA 17:7)

1. Donetskiy politekhnicheskiy institut. Rekomendovana  
kafedroy razrabotki mestorozhdeniy poleznykh iskopayemykh.

BRATISHKO, A.S., gornyy inzh.

Selecting a site for the location of ventilation drifts with  
retreat mining of the longwalls. Ugol' 40 no.1:13-19 Ja '65.  
(MIRA 18:4)

BRATITSEL, V.F. [Bratytsel, V.F.]

Reconstruction of a drugstore. Farmatsev. zhur. 16 no. 2:77-78  
'61. (MIRA 14:4)

1. Keruyuchiy aptekoyu no.101, s.Troits'ke, Odes'koi oblasti.  
(TROITSKOE (LIUBASHEVKA DISTRICT)—DRUGSTORES)

BRATIYCHUK, M. V.

BRATIYCHUK, M. V.: "Investigation of the diffraction spectrograph and the spectrophotometry of protuberances." Acad Sci USSR. Main Astronomical Observatory. Leningrad, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Sciences)

Knizhnaya letopis', No 39, 1956. Moscow.

BRATIYCHUK, M.V.

PHASE I BOOK EXPLOITATION SOV/3614

Kiyev. Universitet. Astronomicheskaya observatoriya  
Tsirkulyar, No. 69 (Circular, No. 69) Kiyev, 1959. 19 p. 500 copies  
printed.

Editorial Board: A.F. Bogorodskiy, Docent (Resp. Ed.), D.V.  
Pyaskovskiy, Professor, A.A. Yakovkin, Professor; Tech. Ed.:  
T.I. Khokhanovskaya.

PURPOSE: The booklet is intended for astronomers. It may also be  
of interest to engineers working on the design and construction  
of astronomical instruments.

COVERAGE: This booklet contains two articles. The first treats in  
detail tests on the diffractional spectrograph at the Astronomi-  
cheskaya observatoriya Kiyevskogo universiteta (Observatory of  
the Kiyev University), while the second describes the work done at  
the Observatory on the spectrophotometry of chromospheric flares.  
No personalities are mentioned. References accompany both articles.

Card 1/2

Circular, No. 69

SOV/3614

TABLE OF CONTENTS: None given [book divided as follows].

Bratiychuk, M.V. Investigation of the Large Diffractioal Spectro-	
graph at the Observatory of Kiyev University	
1. Instrument curves	3
2. Further investigation of instrument curves	3
3. Investigation of light scattering on grid lines	9
4. Investigation of slit alignment	9
5. Investigation of the step attenuator and the polarization properties of the system: telescope and spectrograph	10
Polupan, P.N. Spectrophotometry of Chromospheric Flares	12
AVAILABLE: Library of Congress	16

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TM/jb  
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BRATIYCHUK, M.V.

19

PHASE I BOOK EXPLOITATION SOV/5575

Akademiya nauk SSSR. Astronomicheskiy sovet.

Byulleten' stantsiy opticheskogo nablyudeniya i skusstvennykh sputnikov Zemli, no. 6. (Bulletin of the Stations for Optical Observation of Artificial Earth Satellites, No. 6) Moscow, 1959. 23 p. 500 copies printed.

Sponsoring Agency: Astronomicheskiy sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Secretary: O. A. Severnaya.

PURPOSE : This bulletin is intended for scientists and engineers concerned with optical tracking of artificial satellites.

COVERAGE : The bulletin contains 9 articles which present the results of satellite observations, and describe methods and specific equipment used for photographic observation of earth satellites. An appendix contains a listing of 84 Soviet satellite observation stations with station number. No personalities

Card 1/6

Bulletin of the Stations (Cont.)

SCV/5575

are mentioned. There are no references.

TABLE OF CONTENTS:

Pancva, G. V., T. Ye. Syshchenko, B. A. Firago, and D. Ye. Shchegolev [Glavnaya (Pulkovo) Astronomicheskaya obser-  
vatoriya AN SSSR - Main (Pulkovo) Astronomic Observatory of the  
Academy of Sciences of the USSR]. Observations of the Second  
Artificial Earth Satellite (1957 β) at Station No. 039 (Pulkovo)  
(Observations: B. A. Firago, D. D. Polozhentsev, G. V. Panova,  
N. M. Bronnikova. Measurements and Calculations: M. Ye. Syshchenko,  
G. V. Panova, D. Ye. Shchegolev, B. A. Firago, and T. P. Kise-  
leva)

1

Lengauer, G. G. [Main (Pulkovo) Astronomic Observatory of the  
Academy of Sciences of the USSR]. On Methods for Precise Photo-  
graphic Determinations of the Positions of Artificial Earth Satel-  
lites

6

Card 2/6

## Bulletin of the Stations (Cont.)

SOV/5575

- 19
- of the USSR]
- c. Kalikhevich, F. F. Corrections of the Universal Time of  
Photographic Satellite Observations in the Above Depart-  
ment, Published in the Bulletin of Optical Satellite
- d. Klimishin, I. A. [Head of the Tracking Station of the  
Astronomical Observatory of the L'vov State University  
imeni I. Franko] [Astronomicheskaya observatoriya  
L'vovskogo gosuniversiteta im. I. Franko. Astronomic  
Observatory of L'vov University im. I. Franko] (Methods used:  
Deych and Kayzer. Observers: K. F. Vavrin'yuk, I. V.  
Shpichka, L. F. Lutsiv-Shumskiy. Measurements: A. A.  
Kopystyanskiy, and L. F. Lutsiv-Shumskiy.)
- e. Bratiychuk, M. V. [Head of the Tracking Station, Uzhgorod  
State University] [Uzhgorodskiy gosuniversitet - Uzh-  
gorod University.] (Calculator: Shvalagin)
- f. Russo, Yu. D., and P. I. Chuprina. Odessa Astronomical  
Observatory. (Methods used: Deych and Tsesevich. Ob-  
server: V. V. Grek)

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22

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Card 5/6

URASIN, L.A.; KALIKHEVICH, F.F.; IVAKINA, T.Ya.; KLIMISHIN, I.A.;  
BRATIYCHEK, M.V.; RUSSO, Yu.D.; CHUPRINA, R.I., nauchnyy  
sotrudnik

Results of photographic observations of artificial earth  
satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.6:18-23  
'59.  
(MIRA 13:6)

1. Sotrudnik Astronomicheskoy observatorii im. Engel'gardta, Kazan' (for Urasin).
2. Sotrudniki stantsii fotonablyudeniya iskusstvennykh sputnikov Zemli v Nikolsayevskom otdelenii Glavnaya astronomicheskoy observatorii AN SSSR (for Kalikhevich, Ivakina).
3. Nachal'nik nablyudatel'noy stantsii Astronomicheskoy obser-vatorii L'vovskogo gosuniversiteta im. Iv. Franko (for Klimishin).
4. Nachal'nik fotograficheskoy stantsii O73 Odesskoy astrono-micheskoy observatorii (for Russo).
5. Astronomicheskiy Sovet AN SSSR (for Chuprina).

(Artificial satellites--Tracking)

NEVEL'SKIY, A.V., mladshiy nauchnyy sotrudnik; BRATIYCHUK, M.V.;  
SAVRUKHIN, A.P.; MOZHZHERIN, V.M.; LATYPOV, A.A.; CHUPRINA,  
R.I., mladshiy nauchnyy sotrudnik

Results of photographic observations of artificial earth  
satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.8:17-24  
'59. (MIRA 13:6)

1. Astrosoviet AN SSSR (for Nevel'skiy). 2. Nachal'nik stantsii  
opticheskikh nablyudeniy Uzhgorodskogo gosuniversiteta (for  
Bratiychuk). 3. Nachal'nik stantsii fotonablyudeniy iskusstvennykh  
sputnikov Zemli pri Instantsii nablyudeniya sputnikov Krymskoy  
astrofizicheskoy observatorii (for Mozhzherin). 5. Nachal'nik  
fotograficheskoy stantsii Tashkentskoy astronomicheskoy  
observatorii AN UzSSR (for Latypov). 6. Astrosoviet AN SSSR (for  
Chuprina).

(Artificial satellites--Tracking)

BRONKALLA, V.; CHUPRINA, R.I., nauchnyy sotrudnik; KLEPIKOVA, L.A.,  
nauchnyy sotrudnik; BRATIYCHUK, M.V.; NEVEL'SKIY, A.V., mladshiy  
nauchnyy sotrudnik; KAKHHOROV, A.; ZAV'YALOV, F.P.; VOLYNSKIY,  
B.A.

Results of photographic observations of artificial earth  
satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.1:14-22 '60.  
(MIRA 13:5)

1. Babel'sberskaya observatoriya, Berlin, Germaneskaya Demokrati-  
cheskaya Respublika (for Bronkalla).
2. Astrosoviet AN SSSR (for  
Chuprina, Klepikova).
3. Nachal'nik stantsii opticheskikh  
nablyudeniy Uzhgorodskogo gosuniversiteta (for Bratiychuk).
4. Astronomiceskaya observatoriya Ural'skogo gosuniversiteta,  
Sverdlovsk (for Nevel'skiy).
5. Stantsiya fotonablyudeniy  
iskusstvennykh sputnikov Zemli 068 Instituta astrofiziki AN  
Tadzhikskoy SSR, Stalinabad (for Kakhkhorov, Zav'yaylov).
6. Nachal'nik stantsii nablyudeniy iskusstvennykh sputnikov  
Zemli pri Yaroslavskoy pedinstitute (for Volynskiy).

(Artificial satellites--Tracking)

37925

3,1220

S/035/62/000/005/014/098  
A055/A101

AUTHORS: Bratiychuk, M.V., Shvalagin, I. V.

TITLE: Real precision of photographic observations of Artificial Earth Satellites by the station no. 055

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 5, 1962, 16, abstract 5A129 ("Dokl. i soobshch. Uzhgorodsk. un-t. Ser. fiz.-matem. n.", 1961, no. 4, 63 - 65)

TEXT: At the Uzhgorod station, photographic observations of Artificial Earth Satellites are effected with the aid of the НАФА-3с (NAFA-3s) camera. The opening and closing moments of the shutter are fixed on the tape of the printing chronograph. The accurate processing of the photographs is carried out according to the methods of A. N. Deych and A. A. Kiselev. A УИМ-21 (UIM-21) is used as measuring machine. Investigations showed that the time-fixing apparatus guarantees a precision of 0.01 sec, which is obviously insufficient. Inasmuch as the real precision of the measurements with an UIM is 0.006 - 0.007 mm, the satellite's coordinates can really be obtained with a precision of 5 - 6".

Card 1/2

Real precision of...

S/035/62/000/005/014/098  
A055/A101

whereas the time-error of 0.01 sec leads, at the satellite's speed of 1°/sec,  
to an error of 36". There are 5 references.

G. Panova

[Abstracter's note: Complete translation]

Card 2/2

S/035/62/000/008/025/090  
A001/A101

AUTHORS: Bratiyukhuk, M. V., Kostik, R. I.

TITLE: The quiet prominence of June 27, 1960

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 8, 1962, 61,  
abstract 8A402 ("Solnechnyye dannyye", 1961, no. 6, 68 - 70)

TEXT: The spectrum of the prominence was obtained in hydrogen lines up to H<sub>18</sub>; lines of Ti and Mg were observed. Processed were the lines of hydrogen H<sub>9</sub> - H<sub>14</sub>, lines of Ti  $\lambda\lambda$ 3759.3 and 3761.3 and lines of Mg  $\lambda\lambda$ 3838.3 and 3832.3<sup>4</sup>; profiles of spectral lines were measured. Every profile was plotted on the basis of 2 - 3 profiles of emission lines at various exposures. Obtained were the central intensity, expressed in units of intensity of the Sun's center; equivalent width, expressed in equivalent angstroems for the Sun's center, and  $\Delta N/\bar{n}$ -reduced half-width. The profiles have Doppler cores, in wings is noted additional broadening whose cause is not clear (Stark effect does not take place). Kinetic temperature and turbulent velocity are determined from the half-widths of lines of hydrogen, Mg and Ti:  $T_{kin} = 6,350 \pm 350^{\circ}\text{K}$ ,  $V_t = (0.0 \pm 0.3) \text{ km/sec}$ . Populations

Card 1/2

The quiet prominence of June 27, 1960

S/035/62/000/008/025/090  
A001/A101

of the quantum hydrogen levels are calculated from equivalent widths of the lines on assumption that self-absorption is absent. Observational data on intensity and population of hydrogen lines agree well with theoretical quantities calculated by V. M. Sobolev's method. There are 5 references. ✓

Ye. Makarova

[Abstracter's note: Complete translation]

Card 2/2

BRATIYCHUK, M.V.

Results of the spectrophotometry of some prominences. Publ. XAO  
no. 2:11-26 '61.  
(Sun--Prominences) (MIRA 16:7)

BRATIYCHUK, M.V.; SHVALAGIN, I.V.

Estimation of the accuracy of artificial satellite coordinates  
determined with a KPP camera. Biul.sta.opt.nabl.isk.sput.Zem.  
no.25:13-15 '62. (MIRA 15:7)

1. Uzhgorodskaya stantsiya nablyudeniya iskusstvennykh sputnikov  
Zemli.

(Artificial satellites--Orbits)

BRATIYCHUK, M.V.

Results of photographic observations of the Ekh-1, 1960, artificial satellite at the Uzhgorod Station for the Observation of Artificial Earth Satellites. Biul.sta.opt.nabl. isk.sput.Zem. no.26:18-21 '62.

1. Nachal'nik Uzhgorodskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli.

(Artificial satellites--Tracking)

SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; NEVEL'SKIY, A.V.,  
mladshiy nauchnyy sotrudnik; KIRICHENKO, A.G., vychislitel';  
~~KRATIYCHUK, M.V.~~; MAKSYUTOV, mladshiy nauchnyy sotrudnik;  
KALIKHEVICH, F.F., mladshiy nauchnyy sotrudnik; IVAKINA, T.Ya.,  
laborant; KLEPESHTA, I.; RAYKHL, R.; VRATNIK, A.

Results of photographic observations of artificial earth  
satellites. Biul.sta.opt.nabl.isk.sput Zem. no.4:17-23 '60.

(MIRA 13:11)

1. Glavnaya (Pulkovskaya) astronomiceskaya observatoriya AN SSSR  
(for Syshchenko, Firago, Shchegolev).
2. Astrosoviet AN SSSR (for  
Nevel'skiy).
3. Nachal'nik stantsii opticheskikh nablyudeniy  
iskusstvennykh sputnikov Zemli, Uzhgorod (for Bratiychuk).
4. Stantsiya opticheskikh nablyudeniy iskusstvennogo sputnika  
Zemli, Uzhgorod (for Kirichenko).
5. Astronomiceskaya observatoriya  
im. Engel'gardta, Kazan' (for Maksyutov).
6. Nikolayevskoye  
otdeleniye Glavnay astronomicheskoy observatoriya v Prague,  
Chekoslovakiya (for Klepeshta, Raykhl, Vratnik).

(Artificial satellites--Tracking)

BRATIYCHUK, M.V.; BELENKO, V.I.; KRYLOV, A.G.; SENTSOVA, Yu.Ye.;  
YUREVICH, V.; TUMANYAN, B.Ye.; KHARIN, B.T.; CHERVYAKOVA, A.F.;  
BERUCHKA, Yu.I.; PLUZHNIKOV, V.Kh.; SHILKINA, Z.A.

Results of photographic observations of artificial satellites.  
Biul.sta.opt.nabl.isk.sput.Zem. no.28:16-30 '62,

(MIRA 15:12)

1. Nachal'nik Uzhgorodskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Bratiychuk). Stantsiya Astronomicheskogo soveta AN SSSR (for Belenko, Krylov, Sentsova, Yurevich, Shilkina).
3. Nachal'nik Yerevanskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Tumanyan).
4. Nachal'nik Stantsii nablyudeniya iskusstvennykh sputnikov Zemli pri Tomskom gosudarstvennom universitet (for Kharin).
5. Nachal'nik stantsii No.074, Instituta astrofiziki AN Turkmenской SSR (for Chervyakova).
6. Nachal'nik stantsii nablyudeniya iskusstvennykh sputnikov Zemli Astronomiceskoy observatorii Khar'kovskogo universiteta (for Pluzhnikov),

(Artificial satellites—Tracking)

TUMANYAN, B.Ye.; KALIKHEVICH, F.F.; IVAKINA, T.Ya.; BRATIYCHUK, M.V.;  
BELENKO, V.I.; KRYLOV, A.G.; SENTSOVA, Yu.Ye.; SHILKINA, Z.S.;  
YUREVICH, V.A.; ZAKHAROV, V.N.

Results of photographic observations of artificial earth satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.29:37-44 '62.

(MIRA 16:2)

1. Nachal'nik Yerevanskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Tumanyan).
2. Nikolayevskaya stantsiya nablyudeniya iskusstvennykh sputnikov Zemli (for Kalikhevich, Ivakina).
3. Nachal'nik Uzhgorodskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Bratiychuk).
4. Zvenigorodskaya stantsiya Astronomiceskogo soveta AN SSSR (for Belenko, Krylov, Sentsova, Shilkina, Yurevich).
5. Nachal'nik Irkutskoy stantsii nablyudeniya iskusstvennykh sputnikov Zemli (for Zakharov).

(Artificial satellites—Tracking)

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BRATKA, P.

250 years of engineering schools in Prague and the development of the study of  
sanitary engineering. p.113.  
(Voda, Vol. 36, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

APPROVED FOR RELEASE: 06/09/2000

CIA-RDP86-00513R000206730011-1"

PROKOLIYENKO, L.N. (Kiyev); RALL, G.A. (Kiyev); BRATKO, A.A. (Kiyev)  
Ukrainian psychological conference, Vop. psichol. 11 no. 3:183-189  
My-Je '65.  
(MIRA 18:7)